

AMENDMENTS TO THE CLAIMS

Claims 1-35 (Canceled).

36. (New) A method for editing a color profile to convert source color data to destination color data comprising

converting source color data of a source color space to a destination image space to produce destination color data;

selecting at least one profile edit and applying said at least one profile edit to the source color data to provide modified source color data and converting the modified source color data to provide a modified destination color data,

wherein said at least one profile edit modifies a gamut mapping in a color profile to control rendering of the destination color data on a target device, said gamut mapping being in, or converted to, look-up table (LUT) form, and converting said at least one profile edit to color spaces of said gamut mapping and applying said at least one profile edit as converted to the gamut mapping to provide a modified gamut mapping.

37. (New) A method for editing a color profile to convert source color data to destination color data comprising

– taking an existing gamut mapping in a color profile, said gamut mapping being in look-up table (LUT) form or converting said gamut mapping to LUT form, and modifying said gamut mapping by applying at least one profile edit to one or more color spaces, said at least one profile edit being made in an empty list of edits or in an existing list of edits, wherein source color space and destination color space of said gamut mapping are identified, a profile edit is added to said empty list of edits or said existing list of edits to set parameters of said empty list or to modify parameters of said existing list of edits, each of said at least one profile edit being an action on a source color space of gamut mapping, an action on a destination color space of said gamut mapping or an action directly on color data of said gamut mapping with said color data relating to a source color space or a destination color space, to thereby modify the gamut mapping by applying resulting actions of each of said at least one profile edit and conforming the gamut mapping thereto.

38. (New) The method of claim 36, wherein said at least one profile edit comprises, for all input points of the gamut mapping, taking the input point and a corresponding output point thereto, converting the color space of the input point to the color space of the profile edit within a color range of the profile edit and applying the edit to provide a new input point, applying the gamut mapping to the new input point and modifying the corresponding output point thereby.

39. (New) The method of claim 37, wherein said at least one profile edit comprises, for all input points of the gamut mapping, taking the input point and a corresponding output point thereto, converting the color space of the input point to the color space of the profile edit within a color range of the profile edit and applying the edit to provide a new input point, applying the gamut mapping to the new input point and modifying the corresponding output point thereby.

40. (New) The method of claim 36, wherein said at least one profile edit comprises, for all output points of the gamut mapping, taking the output point and a corresponding input point thereto, converting the color

space of the input point to the color space of the edit and applying the edit to provide a new output point.

41. (New) The method of claim 37, wherein said at least one profile edit comprises, for all output points of the gamut mapping, taking the output point and a corresponding input point thereto, converting the color space of the input point to the color space of the edit and applying the edit to provide a new output point.

42. (New) The method of claim 36, wherein said at least one profile edit comprises collecting all input points of the gamut mapping that affect input data of the edit and, for all output points corresponding to the collected input points, changing output points of the gamut mapping according to a predetermined criteria, evaluation of the gamut mapping as to input data of the edit as compared to resulting output requested by the edit.

43. (New) The method of claim 37, wherein said at least one profile edit comprises collecting all input points of the gamut mapping that affect input data of the edit and, for all output points corresponding to the collected input points, changing output points of the gamut mapping according to a predetermined criteria, evaluation of the

gamut mapping as to input data of the edit as compared to resulting output requested by the edit.

44. (New) The method of claim 36, wherein the at least one profile edit comprises, for all input points of the edit, replacing a corresponding output point in the gamut mapping by the output point of the edit.

45. (New) The method of claim 37, wherein the at least one profile edit comprises, for all input points of the edit, replacing a corresponding output point in the gamut mapping by the output point of the edit.

46. (New) The method of claim 36, wherein said gamut mapping prior to application of said at least one profile edit thereto, contains prior applied profile edits.

47. (New) The method of claim 37, wherein said gamut mapping prior to application of said at least one profile edit thereto, contains prior applied profile edits.

48. (New) The method of claim 36, wherein the user selects a destination color space.

49. (New) The method of claim 36, wherein the user selects the gamut mapping for converting said source color data to said destination data.

50. (New) The method of claim 36, wherein said at least one profile edit is user controlled.

51. (New) The method of claim 37, wherein said at least one profile edit is user controlled.

52. (New) The method of claim 36, wherein when said at least one profile edit is to the source color data and said edit includes changes to at least one of a selective color profile, global mapping and gamut mapping.

53. (New) The method of claim 37, wherein when said at least one profile edit is to the source color data and said edit includes changes to at least one of a selective color profile, global mapping and gamut mapping.

54. (New) The method of claim 36, wherein said at least one profile edit is to said destination color data and includes at least one of a single conversion, color ramp curves, shadow contrast and black replacement.

55. (New) The method of claim 37, wherein said at least one profile edit is to said destination color data and includes at least one of a single conversion, color ramp curves, shadow contrast and black replacement.

56. (New) A system for profile editing comprising a computer-readable medium in which is embodied programming which when read by a computer causes the computer to carry out the method of any one of claims 36-55.